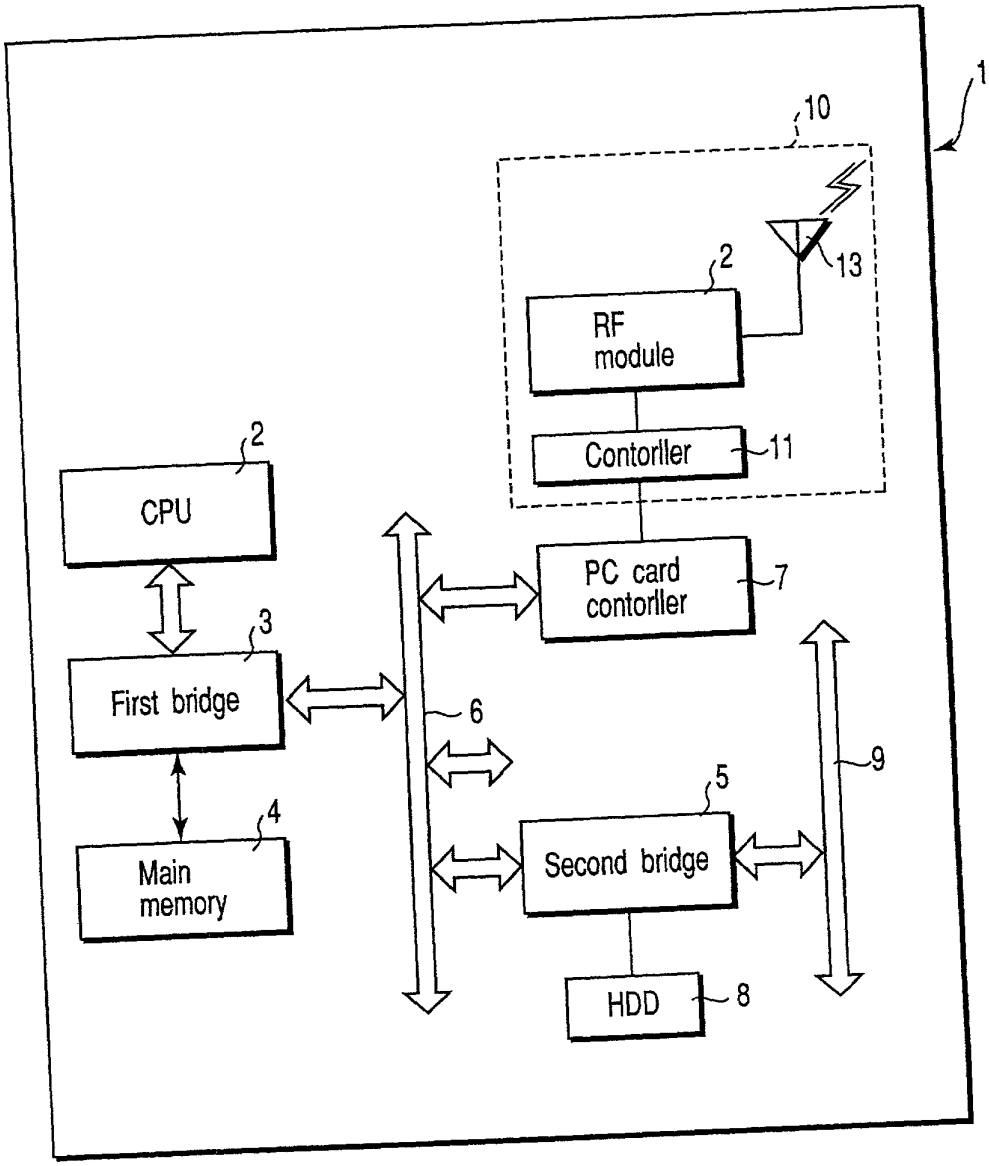
1
10
13
2
RF module
Contorller
11
2
CPU
PC card contorller
7
3
First bridge
6
9
5
4
Main memory
Second bridge
HDD
8

FIG. 1

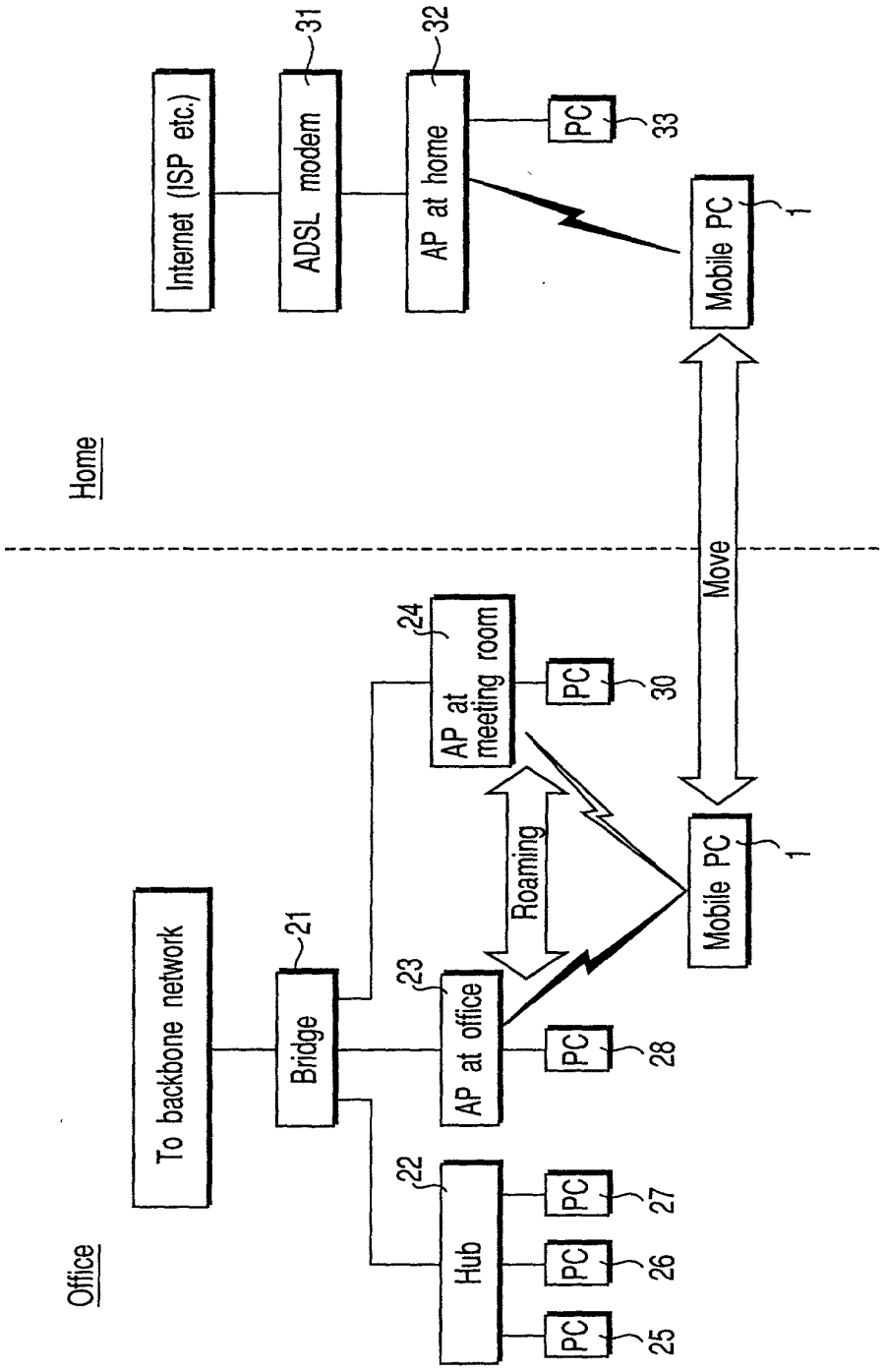
Internet (ISP etc.)
31
ADSL modem
32
AP at home
PC
33
Mobile PC
1
Home
Move
24
AP at meeting room
PC
30
Roaming
Mobile PC
1
To backbone network
21
Bridge
23
AP at office
PC
28
22
Hub
PC
27
PC
26
PC
25
Office

FIG. 2

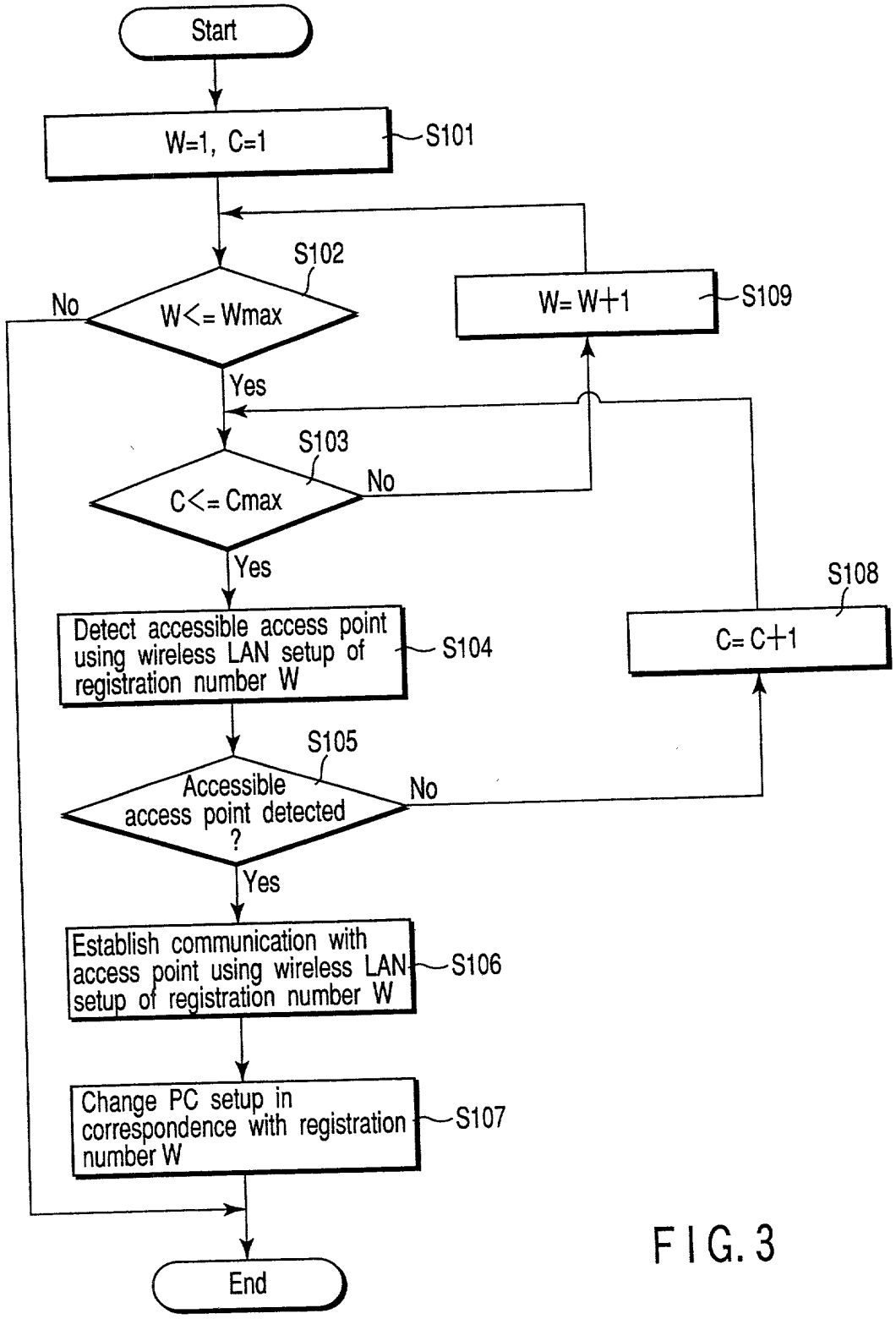
Start
W=1, C=1
S101
S102
W<= Wmax
No
Yes
W= W+1
S109
S103
C<= Cmax
No
Yes
S108
C= C+1
Detect accessible access point using wireless LAN setup of registration number W
S104
S105
Accessible access point detected ?
No
Yes
Establish communication with access point using wireless LAN setup of registration number W
S106
Change PC setup in correspondence with registration number W
S107
End

FIG. 3

Priority	Set access point
1	Access point at office
2	Access point at meeting room
3	Access point home

FIG. 4

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Wireless LAN setup item		
Item	Subitem	Setup value
BSSID		00:11:22:33:44:55
BSSID		"MYOFFICE
WEP	Enable/disable	Enable
	KEY number	1
	KEY 1	"MYOFS"
	KEY 2	Not set
	KEY 3	Not set
	KEY 4	Not set

FIG. 5

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Network setup item		
Item	Subitem	Setup value
DHCP	Enable/disable	disable
	IP address	192.168.10.10
	Subnet mask	255.255.255.0
	Default gateway	192.168.10.1
	DNS server	192.168.10.1

FIG. 6

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Application setup item		
Item	Subitem	Setup value
Mail		Netscape messanger
	Transmission mail server	smtp.myoffice.com
	Reception mail server	pop3.myoffice.com
	User name	my_mail_name
	Password	my_mail_password
News reader		Outlook express
	News server	news.myoffice.com

FIG. 7

<Probe Request> 45

ESSID
Supported rate

FIG. 8

<Probe Response> 46

Timestamp
Beacon interval
Capability information
ESSID
Supported rates
DS parameter set

FIG. 9

<Beacon> 47

Timestamp
Beacon interval
Capability information
ESSID
Supported rates
DS parameter set
TIM

FIG. 10

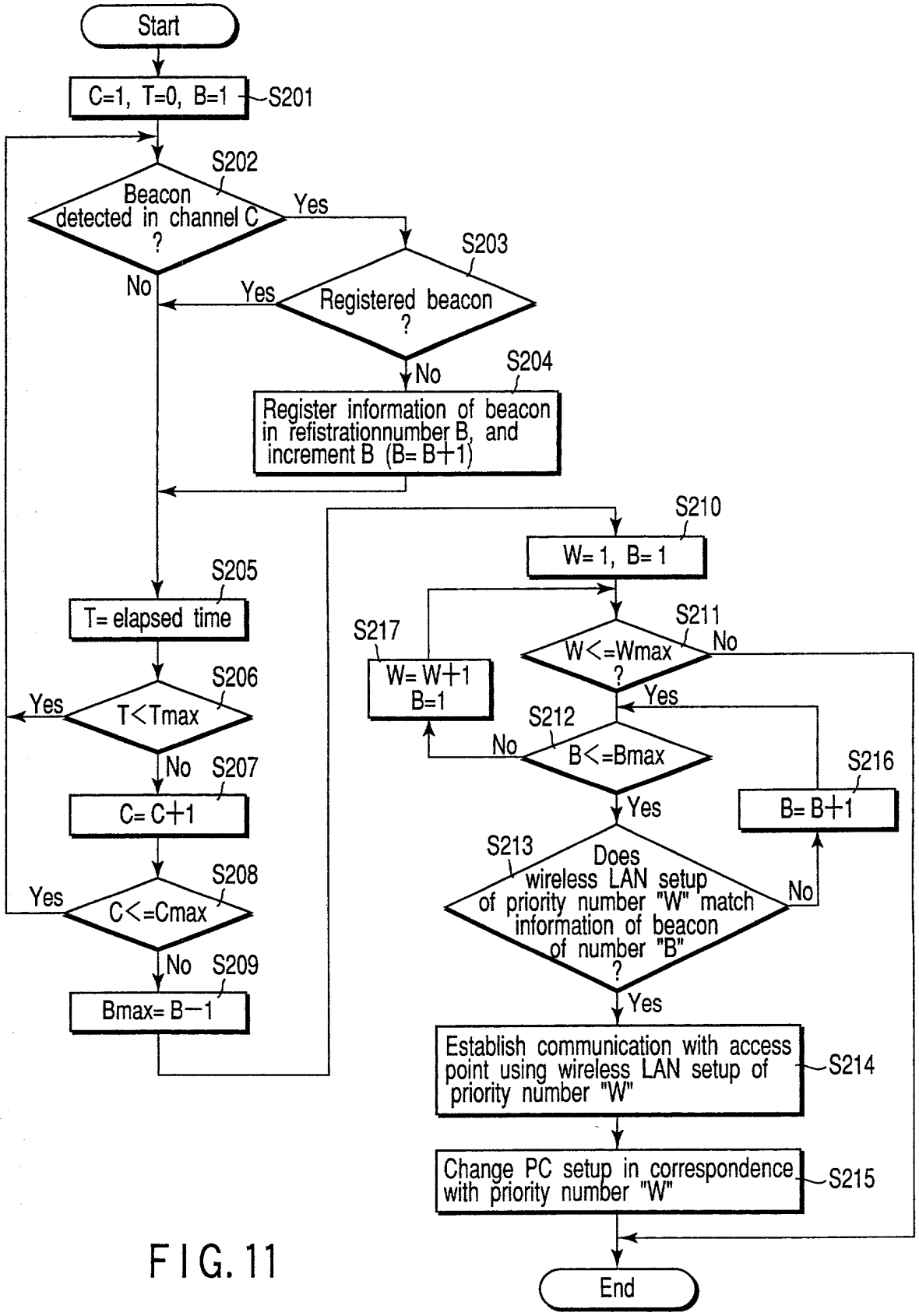
Start
C=1, T=0, B=1
S201
S202
Beacon detected in channel C ?
Yes
No
S203
Registered beacon ?
Yes
No
S204
Register information of beacon in refistrationnumber B, and increment B (B= B+1)
S205
T= elapsed time
S206
T<Tmax
Yes
No
S207
C= C+1
S208
C<=Cmax
Yes
No
S209
Bmax= B−1
S210
W= 1, B= 1
S211
W<=Wmax ?
No
Yes
S212
B<=Bmax
No
Yes
S213
Does wireless LAN setup of priority number "W" match information of beacon of number "B" ?
No
Yes
S214
Establish communication with access point using wireless LAN setup of priority number "W"
S215
Change PC setup in correspondence with priority number "W"
S216
B= B+1
S217
W= W+1
B=1
End

FIG. 11